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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,427	. 03/29/2004	Gerald Burt Kliman	RD-28,364-3	9782
6147 7590 05/25/2007 GENERAL ELECTRIC COMPANY GLOBAL RESEARCH PATENT DOCKET RM. BLDG. K1-4A59			EXAMINER	
			CAZAN, LIVIUS RADU	
NISKAYUNA,		4439	ART UNIT PAPER NUMBER	
•			3729	
			MAIL DATE	DELIVERY MODE
		·	05/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/810,427	KLIMAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Livius R. Cazan	3729			
The MAILING DATE of this communication ap	opears on the cover sheet	with the correspondence add	dress		
Period for Reply A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by statu- Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN. 136(a). In no event, however, may d will apply and will expire SIX (6) Mute, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this co ABANDONED (35 U.S.C. § 133).			
Status	·				
1)⊠ Responsive to communication(s) filed on <u>07</u> 2a)□ This action is FINAL . 2b)⊠ Th 3)□ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal ma		merits is		
Disposition of Claims					
4) Claim(s) 1-15 and 25-33 is/are pending in the 4a) Of the above claim(s) 25-33 is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and are subject to restriction and application Papers 9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing(s) filed on is/are: a) are subjected to by the Examination The drawing	awn from consideration. /or election requirement. ner. ccepted or b) □ objected t				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the l					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in ionty documents have been au (PCT Rule 17.2(a)).	Application Noen received in this National	Stage		
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper N	w Summary (PTO-413) o(s)/Mail Date of Informal Patent Application			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/17/2007 has been entered.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In particular, as currently amended, claim 1 recites "directly molding composite tooth tips into contact with respective teeth of the laminated stator yoke, such that the composite tooth tips do not extend along the outer sides of the respective teeth" (step (b)). However, there does not appear to be support for this recitation in the specification. Looking at figure 4, tooth tips 24 clearly extend along the outer sides of the teeth (i.e. in the radially inwardly direction, toward the center

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of the stator), each tooth tip being an **extension** of a corresponding tooth. Moreover, the portion of the teeth to which the tooth tips are attached (see Fig. 4) can be thought of as an outer side of the teeth. Clearly then, the recitation "such that the composite tooth tips do not extend along the outer sides of the respective teeth" contradicts the disclosure.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In particular, claim 1 does not define the structure of the teeth sufficiently well to be able to determine which portions of each tooth are considered "sides." It is therefore unclear what is meant by "such that the composite tooth tips do not extend along the outer sides of the respective teeth." Moreover, this phrases makes it unclear as to which particular tooth tip does not extend along an outer side of a particular tooth.

Claim Rejections - 35 USC § 102

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1-3, and 7, are rejected under 35 U.S.C. 102(b) as being anticipated by Mischler (US4255684 to Mischler et al.).

Regarding claim 1 (as best understood), Mischler discloses:

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Positioning pre-wound stator windings (14, 15, Figs. 1 and 4; see col. 1,
 In. 45 to col. 2, In. 15) around respective teeth of a laminated stator yoke
 (see Figs. 1 and 4)

• Directly molding composite tooth tips (18, 19, Figs. 1 and 4; see col. 1, In. 45 to col. 2, In. 15; see col. 2, Ins. 60-68) into contact with respective teeth of the laminated stator yoke, such that the composite tooth tips do not extend along the outer sides of the respective teeth. In particular, it can clearly be seen that tooth tip 18 (Fig. 1) does not extend along an outer side of tooth 17, and tooth tip 19 does not extend along an outer side of tooth 16.

Regarding claim 2, the present specification discusses annealing before providing windings on the stator, as part of the conventional process (para. 0002, line 4). Therefore it is deemed that although Mischler does not specifically discuss annealing of the stator laminations, this operation is indeed performed, since doing so is part of the conventional process.

Regarding claim 3, the teeth point radially inward, and therefore the coils are inserted by sliding them radially over the teeth.

Regarding claim 7, the tooth tips are injection molded (col. 3, lns. 42-45).

Claim Rejections - 35 USC § 103

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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4. To the extent Applicant disagrees that Mischler discloses annealing the laminated stator yoke, **claim 2** is rejected under 35 U.S.C. 103(a) as being unpatentable over Mischler in view of Applicant's admitted prior art (APA).

The rejection is maintained as presented in the Office Action mailed on 9/5/2006. See the response to arguments below.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mischler in view of Satomi (JP7336992).

The rejection is maintained as presented in the Office Action mailed on 9/5/2006. See the response to arguments below.

6. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mischler in view of Crabb (US3862492).

The rejection is maintained as presented in the Office Action mailed on 9/5/2006. See the response to arguments below.

7. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mischler in view of Heidrich (US20020149282).

The rejection is maintained as presented in the Office Action mailed on 9/5/2006. See the response to arguments below. Note that the previous Action contained a typographical error, stating that claims 8-10 are unpatentable over Heidrich, rather than over Mischler in view of Heidrich. However, it is clear from the text of the rejection that Mischler is being used as a primary reference and Heidrich as the secondary reference.

8. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mischler in view of Kilman (US6274962).

The rejection is maintained as presented in the Office Action mailed on 9/5/2006. See the response to arguments below.

9. Claims 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mischler and Kilman as applied to claim 11, in view of Heidrich.

The rejection is maintained as presented in the Office Action mailed on 9/5/2006. See the response to arguments below.

Response to Arguments

10. Applicant's arguments filed 4/17/2007 have been fully considered but they are not persuasive. Regarding claims 1-3 and 7, Applicant argues Mischler does not disclose the newly recited limitations. However, as noted in the rejections under 35 U.S.C. 112, the amendment introduces new matter and presents certain deficiencies which make it unclear as to what is being claimed. As best understood, it is deemed Mischler still anticipates these claims (see appropriate rejection). Regarding claims 2, 4-6, and 8-15, Applicant argues they do not solve the deficiencies of Mischler, and are therefore allowable due to their dependence on claim 1. As discussed above, Mischler still anticipates claim 1, and therefore the rejections under 35 U.S.C. 103(a) are maintained.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Livius R. Cazan whose telephone number is (571) 272-8032. The examiner can normally be reached on 8:00AM-4:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter Vo can be reached on (571)272-4690. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LRC/ 5/17/2007

A. DEXTER TUGBANG
DRIMARY EXAMINER